

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: N8CQA@aol.com
Subject: [3843] 10/95 QQ
Message-ID: <951005192916_117174133@emout04.mail.aol.com>

Ron - Just got it - GREAT JOB!!! I'll try to find something to nit-pick about, but I'll have to work at it. Added pages make it a real magazine. Thanks for all your effort! .

72/73 Buck

Buck Switzer, N8CQA, Marysville, MI
Home (810)364-9640 Fax(810)364-8179
N8CQA@aol.com / am441@detroit.freenet.com
"QRP is not for sissies!"

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: khdxdiv.lanl.gov
Subject: [3844] Cascade #117 has arrived in NM
Message-ID: <199510052338.TAA90483@nss2.CC.Lehigh.EDU>

Gang,

The Cascade arrived today, Oct. 5. Mine was order #117. It may take until after Christmas to be able to build it. (Sigh.) If #117 has reached the wilds of New Mexico, there is hope for those of you in the civilized East.

On other homebrew matters:

1. My NorCal 40 (one the originals of those, too) expired this past summer. I was going to show the Boy Scouts in my son's troop about ham radio on a campout and wound up with a dead box. RX was fine but TX was dead. In finally getting to diagnose it this past week I found that the drive adjust pot (R13) was open. I wired in a 22 ohm resistor across the bottom of the board and it is back to putting out 2w. Has anyone else seen a failure in these pots?
2. I have an original nn1g (Mark I) where the RX is dead and the TX is okay.

In this case I can faintly hear the sidetone, though the TX is putting out about 2w. If I key up the borrowed BA on freq. I can also faintly hear that. Last time I hacked around on it I thought I could faintly hear www (presumably at 10MHz). Any suggestions?

3. No, I don't have one of each new qrp kit as soon as they become available. What you see above is the total extent of my goodies.

duh duh (slower than Chuck and dumber than Ron)

Keith ab5qe

khd@lanl.gov

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995

From: "Jim Kortge, NU8N" <jokortge@sun.lisp.com>

Subject: [3846] Cascade on 40

Message-ID: <9510052354.AA01670@sun>

Attention 40 meter Cascade builders. I have discovered the first major problem with putting the Cascade on 40 meters. There is an error in the main PC board in that pin 23 of connector is grounded under the connector as well as being grounded via the trace near jumper 89. The 40 meter modification requires that the ground return line coming from J4, pin 23 be rerouted to the junction of C22 and C25 by lifting the ground at the pad near jumper 89. However, because of the ground connection on the top of the main PC board being connected to J4, pin 23 also, the pin 23 can't be ungrounded. Obviously, an oversight on laying out the PC board.

Two options exist:

If you haven't soldered in J4, cut the traces on the top side of the main PC board going to pin 23. The board will be correct and everything else in the published 40 meter modification should be ok (I'm hedging 'cause I haven't finished mine yet)

If you have soldered in J4, (as I have) cut the trace on the bottom of the main PC board going to pin 23 adjacent to the pin. Add a jumper from pin 24 to the pin 23 ground return trace. Remove the ground connection on the pad next to jumper 89 as detailed in the published modification. The 20 meter band module used for 40 meters will then need to use pins 24 and 25 for the VFO selection instead of using pins 23 and 25.

One last item. A few of you who are planning to build their Cascades on 40/17 asked about the availability of the i.f. filters that I have. My appologies for not responding to you directly. The mailer went nuts and I lost your addresses. However, I bought two of the Cascade kits so I'm planning to use two of the sets there, and use the spare set for future experiments. Someone also asked what the cost was for the crystals and the capacitors. I don't know exactly since I took the opportunity to buy several capacitor values for other projects and I always buy 10 to 20 of

everything so that I have parts available when I'm tinkering. I would guess though that 10 crystals and all of the capacitors to do the filters would be around 15 to 17 dollars plus shipping. With 10 crystals, I think the odds are quite good that you'll have enough to get one really good i.f. filter, use one more for the BFO, and keep the other 4 for tinkering. Too bad we don't have a 12.288 MHz QRP only frequency!! :-)

Stay tuned.....Jim, NU8N

| | | |
|-------------------|---------|------------------------|
| Jim Kortge, NU8N | | Bicycle Mobile Hams |
| jokortge@lisp.com | __o | of America |
| Fenton, MI | _\'<, | Mizuho 17m/40m QRP SSB |
| | (*)/(*) | |

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: N5EM@aol.com
Subject: [3837] Charging Gel Cells
Message-ID: <951005173958_117080147@mail04.mail.aol.com>

The note about requireing 14.2 to 14.4 volts hit a chord. It may be that your gel cell pack charges through a silicon diode? If so, the 13.5 volts required might be raised to 14.2 on the upstream side of a silicon diode. That might explain why it needs 14+ volts to charge properly. Then again, it might have nothing to do with it :-)

72
Ed

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: "Ted Kell" <kell@mpac.jsc.nasa.gov>
Subject: [3827] Cumulative Index
Message-ID: <199510051708.NAA31677@nss2.CC.Lehigh.EDU>

When my QRPP came, I was reading it and came to a reference to a "Z-Match" antenna tuner. I cannot remember if this was written un in QRPP or not and I didn't fiel like getting out the collection and rooting through to maybe find the original article. Well, Darn, I wish someone did a cumulative index to this mag, I thought. The more I thought about it, especially since I had recently given Doug hell for trying to do everything himself, the more I realized that somebody might have to be me.

First, if ANYBODY is already working on such a project, Please let me know so I

From: "Tim Stabler" <TSTABLER@iunhaw1.iun.indiana.edu>
Subject: [3834] digest
Message-ID: <210961581A@iunhaw1.iun.indiana.edu>

I mentioned this before but again today (Thursday) for Digest 139, mine ended at 3801 and according to the index, the digest went to 3817. Hope there was nothing of interest there. I am having internet problems so don't give me addresses, especially for WWW.

Do have another question which is not qrp. I got a flip phone for the wife for her birthday and they gave it the same number as the car phone. Due to "coding" the car phone now does not work. It would if I paid an additional \$15/month and ALL airtime charges (Cellular One). I got the penny special at Radio Shack (Ameritech) so we can talk car to car. Question is: can the car phone be re-programmed so I could use it if I had to. It is 3 watts compared to 0.6. This is probably illegal as hell.

72 de Tim

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: "Eugene S. Tehansky" <tehansky@atc.ameritel.net>
Subject: [3849] First Fox
Message-ID: <Pine.LNX.3.91.951005224212.1531A-1000000@atc.ameritel.net>

My first time out, bit cautious, sightings at 0103utc, 0117utc, 0206utc. Success at 0210utc on 7.110.38 with 3 watts. Got 339, gave 559 with deep qsb. When he was up, he was clear. Qth Saint Mary's county Maryland, SSE of DC.

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: H Smith <hbs@crl.com>
Subject: [3851] FOX stuff
Message-ID: <Pine.SUN.3.91.951005204206.22746C-1000000@crl4.crl.com>

I think the QRPers drilled a hole in 7.040 tonight. We definitely used the frequency.

The equipment here was a TS-50 at 5 watts and a S&S ARK4 (borrowed) at 5 watts. Antenna was a delta loop on 40 meters.

Sorry that I couldn't hear everybody, but I did have some line noise off and on.

This is the official list for tonight. Please let me know if there are any corections or additions.

(Excuse the bandwidth, but these folks worked hard for a contact tonight and we need to make sure we have it right).

| Time(UTC) | Call | Other |
|-----------|---------|---|
| 0106 | N3KFL | Al |
| 0110 | W1HUE | Larry |
| 0112 | K9DZE | Allen |
| 0114 | WB8AJD | Bill in Dayton |
| 0116 | WA9PWP | Paul in Wisc |
| 0118 | KB9IUA | Kevin, QRO |
| 0121 | W3PM | Gene in Ala. |
| 0123 | AA2WJ | Dick in Buffalo, NY |
| 0126 | AA2PF | Dave in Buffalo, NY |
| 0128 | N2MNN | Steven |
| 0130 | W00Q | Marty in NW Co. |
| 0132 | AB6DG | John in La |
| 0133 | WW7Y | Steve in Utah |
| 0135 | VE3DNL | Glen in Hamilton (?) |
| 0137 | AB5OU | Tim |
| 0139 | KC2DU | John in Webster, NY (4 watts) |
| 0141 | NZ4I | Ranson in Va. |
| 0143 | WA3YON | Bob in Pa. |
| 0145 | AL7GQ | Geno near Denver |
| 0147 | NQ7K | Mike in Phoenix |
| 0149 | N8ET/M2 | Bill mobiling somewhere in 2 land (my kind o guy) |
| 0152 | KE4PC | Mike in TX (hey neighbor) |
| 0155 | KV2X | Tom |
| 0158 | AA7QY | Roger |
| 0206 | KC1FB | 7.110 - Jim in Ct |
| 0211 | AA3AV | 7.110 Gene in Md |
| 0230 | W03B | 7.110 Bob (it works great Bob) |
| 0234 | WA3NNA | Pete in Philly |
| 0237 | WB4TPW | Roger |
| 0239 | N6ULU | Stan near SF |
| 0242 | WA6HHQ | Eric |
| 0245 | K3TKS | Danny |
| 0249 | AA0XZ | Greg |
| 0251 | WA4KAC | Walt in Md. |
| 0253 | VA3TAR | Ted in Toronto |
| 0254 | KC1GS | Bill in Mass. |
| 0256 | N2KPY | (Didnt get the name) |
| 0257 | N2CX | Joe |
| 0258 | KA3EAJ | Dave in Md |
| 0259 | WB8ZJL | Paul |

0259:59 K5FO Last-but-not-least-Chuckster

CUL,

Smitty, NA5K

Henry Smith (hbs@crl.com)

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [3850] FOX: 10/6/95
Message-ID: <199510060352.DAA20763@chuck.dallas.sgi.com>

Gang,

I decided that I would tune around 40M just to see what was going on. Band did sound pretty good and had been up on 30M and worked 8Y9II. Needed him on 40M. :-)

Any way was tuning on 40M around 7.040 and heard a fairly strong digital sig at 7.042MHz at 0100UTC. Just as I was about to move down again heard a K9 call CQ just at the lower edge, so what the hey, let me try him to see if band was going to work. He came right back. We talked 12mins and the digital dweeb moved about 5 mins into the QS0. Signed with the 9 and a KD3 hollered at me. Turns out he was in VT and wanted me to know that my 0.95W was getting out.

So went back into the search mode for Smitty. I thought a rare DX station came on as there was a pretty good pile of stations at 7.040 and a lil above. Darn if it wasn't Smitty working 'em like it was SS or some big DX'pedition. The calls read like who's who of the QRP-L list!!

I let him run as he was real weak here, since he is only like 30 miles away. Then WHAM!!! A N5??, only two blocks away and running a KW came on calling a sked in 6-land about 3 KHz below. Forget about working anything. The NC40a nor anything else is going to help this puppy. It was about time for Smitty to move up and work the novices anyway. So take a break and come back in

30 mins.

I come back and the N5 has gone off. I love it when that happens. Smitty is back again with a pileup. I get him at the very very last and the only way he recognizes me is the "dit dit". :-) Maybe I can get the FCC to give me the the shortest callsign in the world - EE. :-) ;-)

I personally know K5EE, Al, and he got the call 'cuz the FCC gave him and someone else the same callsign. This was back before the FCC got computers. So the head of the FCC at the time personally called him and asked if he would like to trade. Of course he did. I think Al has over 300+ countries, but he ain't no QRPer!! :-)

Oh well, good job Smitty. I don't know what his count is, but it's gonna set a record, I think.

The strongest signal I heard was my old buddy Stan, N6ULU. I'm telling you the guy has an antenna farm and some kinda ground system. I think I'll file a protest. :-) ;-)

See everyone next week.

dit dit (tm)

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: meh@cbsms1.cb.att.com (m.e.hartwell)
Subject: [3859] frequency
Message-ID: <9510061329.AA17628@emsr1.emsr.att.com>

Hello

Can someone tell me what frequency to listen to if I want hear anything about the hurricanes. Like a watchers net or something.

Marty

PS I assume the frequency would be on 20 meters.

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: "michael (w.m.) babineau" <babineau@bnr.ca>
Subject: [3828] GEL Cell Charging Help?
Message-ID: <"9072 Thu Oct 5 13:20:15 1995"@bnr.ca>

Hi :

I recently bought a battery similar to the "Power Station" product that I have seen advertised in most of the Ham Radio Magazines. This is a self contained unit rated at 5A hrs with 12V, 3V, 6V, 9V outputs. It was cheap too, at \$29.95 Can (\$20 off).

I seem to be having problems getting this thing to charge. I brought the first one back and had it exchanged, the second one doesn't seem to want to take a charge either. The instructions are very terse and I'm wondering if I'm doing something stupid.

Here's the scoop. This thing does not come with an AC charger it only includes a cord which is designed to plug into a car cigarette lighter at one end and into the 12V charging input to the battery. There are absolutely no electronics in this cord therefore I have concluded that all of the charging smarts are packaged with the battery. The instructions say that initial charge using an optional AC/12V adaptor should be about 14-16 HRS (absolute max 20) and after that a charge should take about 8 hours. I have been using a 1.5 12V AC adaptor that I bought at Radio Shack to try to charge this thing. I verified the polarity between the adaptor and the battery, I verified that the adaptor is putting out 12V and I verified that the battery seems to think it is being charged (charging LED lights up). But, even after 16-20 hours on the charger it still shows up as being low (about 9V).

I'm not well versed on GEL-Cells.

Do GEL-Cells have a limited shelf life? Maybe this is old stock? Do these charging times seem consistent with GEL-cells? Maybe this thing is really a pile of NI-Cad cells? Any suggestions short of ripping the thing apart or taking it back and picking up another one? Seeing as this is the second one that doesn't work, I'm starting to wonder if I'm doing something wrong!

Another option is to try to charge it from the car, but this requires about 5 hours according to the instructions and I'm not planning any long drives in the near future. I'm assuming the the reduced charging time in the car is due to a higher voltage (ie 13.8 with the engine running, rather than 12V)!!?

Michael

VE3WMB

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: aa7qy@primenet.com (Roger Hightower)
Subject: [3848] Got the Fox!
Message-ID: <199510060213.TAA06406@usr2.primenet.com>

Well, I got the Fox (NA5K) tonight. Was listening when he first came up, but the world wanted to call him, so I waited until near the end of the first hour....he gave me a 559, I gave him a 549. That's where he started, anyway, but quickly receded and by the end of the qso was down in my permanent, tinnitus-induced s-2 level.

Didn't hear Tom KV2X at all on Tuesday, but he was there tonight. Good path...too bad it wasn't his turn. Another 2 call next Tuesday, so will be there trying agn.

Chuck: I may have to make a trip to Pittsburgh for an indeterminate stay, and plan to take the NC-40A and dipole. Since any fox contacts will be from other than my home QTH, will this be a problem? Actually, I'm looking forward to the chance to see what it sounds like in the East.

72, de Roger, AA7QY

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: PDouglas12@aol.com
Subject: [3824] nail polish
Message-ID: <951005112330_37048205@mail04.mail.aol.com>

I've been using clear nail polish for some years without any ill result. In talking this over with Chuck Adams, I was please to learn he uses the 5 & 10 Store clear polish too. (Nothing costs ten cents anymore.) I only use it after a rig is up and running for several weeks, and then only if it is a little microphonic. My philosophy is to get the rig working, see if I am happy with its functions and calibration, and then goo up the coil if necessary. After the polish dries, I have never have to touch the calibration, which tells me the stuff is just fine. I think the insistence on Q dope is antiquated. The contents of plain clear nail polish is just cellulose and acetone (dimethyl ketone) or other organic solvents, which *evaporate*, leaving only the cellulose on the coil. I doubt that Q dope is anything different or exotic either. I also suspect that the stuff we used to use to silk-and-dope our model airplane wings (and real ones in the biplane days) is still available by the quart at most good hobby stores. I

haven't tried it because I don't build enough (there aren't that many kits on the market!) to need quarts of the stuff. And the little bottle of nail polish has a perfect sized little brush built in--and it'll go dry or get lost before I could possibly use it up.

QRP specific: I was lucky enough to be the first bidder for Scott Cranston's unbuilt Sierra--I will use nail polish on the VFO coil... eventually.

72, Preston WJ2V

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: [3853] New Cascade Errata Oct. 6
Message-ID: <9510060715.AA19430@deneb.csustan.edu>

Guys, those of you who have been hanging in the background waiting for the others to find the mistakes can start your soldering irons. There are now 2 Cascades on the air. The following errata should correct the mistakes in the manual and allow you to successfully complete your kit.

I have shipped 160 of them, and will ship more tomorrow. But, I am taking my wife to Monterrey for the weekend and will not be available to ship or answer questions. The good news is that John Liebenrood is home from Germany and is ready to help out. His email is k7ro@teleport.com and he knows the rig forwards and backwards. Good luck and please post to the list when you get your rig on the air.

.....
Errata List Cascade SSB Transceiver

NOTE: If you received 2 tuning caps in your kit, please return 1 of them as soon as possible. They are irreplaceable and there are kits waiting for them. I mistakenly put 2 of them in 35 kits.

Please send the extra caps to:

Doug Hendricks
862 Frank Ave.
Dos Palos, CA 93620

Guys here is a list of mistakes in the manual. I apologize for the inconvenience but I also take full responsibility. Thanks to Lee Stanford, Mike Ardai, Dave Meacham and Rob Capon for their help in finding the mistakes.

Several times in the manual we refer to a "Kenwood" type speaker mike. We should have said "Icom/Yaesu" The Kenwood will not work. The Radio Shack one listed will work fine. MFJ also makes a good one. Be sure that you get the one that is Icom compatible.

Cascade Manual Page 4

Parts List:

C17 2-12pF Air Trimmer (number on part is 189-503-5) It is the shorter of the two.

C34 2-20pF Air Trimmer (number on part is 189-509-5)

Cascade Manual Page 5

R2, 22, 59, 63, 97, 98 10K should have 73 instead of 63

Cascade Manual Page 6

U5 LM383 (part shipped is TDA2002 or UPC2002)

Cascade Manual Page 7

There should only be 1 C7, 2700 pF cap in the 75 meter band module. The list says 2, it is incorrect.

Cascade Manual Page 9

R63 should be 1K not 4.7K (Late change as of 9-30-95)

Cascade Manual Page 12, Section 1:

Install R19 also. R75 is in the schematic but not used on the board.

Cascade Manual Page 12, Section 2 and Cascade Manual Page 8,

C23 is a 51pF not 47pF as in the cross reference list. The parts list and schematic are right.

Cascade Manual Page 13, Section 3:

C18 was installed in Section 1. Make sure that you used the right screws, and connected the front left lug (facing the cap) to the pad just below it. The shorter variable cap goes to the left nearest the toroid and the taller one goes to the right, nearest the edge. Also install D1.

If you install the front panel at this time, make sure that you have the front of the tuning capacitor hang over the front edge of the board the same amount as the mike and speaker jack do. This will insure that your panel fits square. Also, you will have to file the screws to mount the front panel to the tuning capacitor, as we were unable to find any 3/16 x 4-40 screws. Make sure that the front panel screws don't touch the plates of the capacitor. You should have at least 1/16" clearance.

Don't coat the coil with Q-Dope until you are sure that you have the correct number of turns. Coat it after you have verified the VFO frequency.

Cascade Manual Page 18, Section 4:

R64, a 10K trimpot, does not fit the board. Somehow the holes were not drilled large enough. We suggest that you purchase a 10K trimpot with wire leads, which will fit. Bob Cutter, KI0G, who has his Cascade on the air, was able to get the trimpot supplied to fit by squeezing and filing the leads. It is easier to buy a wire lead one.

The nonpolarized cap is C96, not C98. D11 is not mentioned in the cross-referenced table. R27 was already installed in Section 1. Also, the test where the hum drops out when the Mike PTT button is pressed does not work unless Q16, R68 and R73 are installed to provide a path to the +8TX line.

Install C99

Cascade Manual Page 18, Section 5:

I dropped a line in the parts list that should be installed in this step. Add the following to the parts which should be installed at this time: C7, C68, C69, C70, C71, C72, C74, C75, C76, C79, C88, C92, R47, R48, R51, R52, R62, R63 (1K not 4.7K) and U1. Some of the NPO ceramic disks are actually little blue monos. The square pad for C12 does go to pin 7, so it is OK. R7 was installed in Section 1. When you install the temporary jumper from W1 to W2, it is done between the round pads that are near the plugin band module. Use a piece of resistor lead.

When Testing, U6 pin 8 and Q13 Source will be 0V until PTT is pressed, then they will be 6.7 and 2V as described.

Cascade Manual Page 21, Section 6:

The silk screen pattern for the 75M band module is wrong for the number of turns on L2. It shows 20 turns. It should show 23 turns, which is consistent with the schematic and parts list. Also, C13 and C14 are NOT used on the 20 meter Bandmodule, even though the parts layout and the silkscreening show them. During testing, RF gain pot has no effect, since it is not connected yet. You may also want to install the cover for the bandmodule using the two standoffs and the 4-40 screws.

Cascade Manual Page 24, Section 7: Also install C10. At this point, all components except R13, R8, C15 (by mike jack) and R58 (in BFO) in front of the band module connector should be installed.

Cascade Manual Page 24, Section 8: If D12's leads will not fit, use some resistor leads to connect it. (Mine fits fine, but some have reported problems.) R 39 is the resistor whose part designator is hidden under the angle bracket. R45 will need its legs bent to fit; make sure it will clear R41. Also, install

R80, R81 (two 1 ohm resistors in the unlabeled outlines over by Q7. Install C100 and R35. R40 is the 150 ohm/1 watt resistor (not 180 ohms listed in the cross reference.) You may have to use 1/4 watt resistor leads if the 1 watt resistor leads won't fit the holes, (again, mine did). Wire is not specified for L4 and L5, it should be #26.

At this point, all parts behind the band module should be installed except Q7 (installed in Section 9) and C28 (not used).

Cascade Manual Page 28, Section 10:

When you mount the pcboard to the spacers, you will find that the screws are too long. File them off so that the screw is only 1/2" long. The screws go through J4 and then through the board and then into the standoffs.

CASCADE MOD #1

by Dave Meacham, W6EMD

Cascade builders, here are some mods to improve your rig:

- 1) Reduce R63 to 1K Ohm to cure overmodulation.
- 2) Increase R25 to 22 Ohms to reduce audio gain (if you prefer)
- 3) These changes are for the 75 meter band module. They improve the low-pass filter match for the PA while maintaining proper harmonic rejection. Output power goes from about 6W to about 9W PEP.

L2 = L3 = 2.1uH, 23 T #26 on T37-2 Core (red). Measure if you can, and adjust spacing of turns for 2.1uH. I had to use 22T on one core!

C12 = 680pF

C15 = 1200pF

C16 = 560pF

C14 = 150pF

CASCADE MOD #2

Guys,

I have discovered an instability problem in the Cascade. The good news is that its easy to fix! There are two factors present in the rig that cause the problem. One is the capacitive coupling to the rear panel from the collector of Q7 (by way of the mounting, with mica dielectric). The other factor is that the rear panel is well grounded to the board ONLY AT THE FAR END FROM Q7, by the angle bracket (the BNC connector is insulated from the panel). What happens is that RF current flows through the Q7 mounting capacitance-to-the-panel and then to ground. But, it has to go all the way to the other end of the panel to reach a good ground! That RF current then flows back through the ground plane to Q7 emitter, coupling to the low-level circuits earlier in the TX chain, and causing feedback. This feedback shows up as wideband

oscillations (noise) on the transmitted signal about 2MHz wide!

Screwing on the bottom of the case will usually stop the feedback because of panel-to-panel contact, but it is not a reliable solution. The only sure solution is to provide a good RF ground (low inductance) connection for the panel at the BNC end. You want the shortest possible path through the panel from the Q7 mounting point to the ground plane of the board.

I recommend drilling a 4-40 clearance hole through the panel below board level, in line with the BNC side of Q7. 3/16-inch up from the panel bottom is a good level. Put a 4-40 screw through the hole, head on the outside of the panel. Add a 4-40 solder lug, lock washer, and nut on the inside of the panel, lug facing up. Bend the lug 90 degrees (horizontal) so it points to the front panel. Solder a short piece of wire or solder wick to the lug and to the nearest ground point(s) (C60 and C64, panel sides). This is all under the board.

This fix will render your Cascade stable under all conditions, panels off or on, paint on the panels, etc. Your signal will be clean. Sorry we didn't catch this earlier!

72, Dave, W6EMD

These mods came from my work on the final prototype rig I built. Enjoy!

72, Dave, W6EMD (NorCal #339)

These are the errata for now. Give me a call at 209-392-3522 to see if there are any new ones before you start building. 72, Doug

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995

From: H Smith <hbs@crl.com>

Subject: [3821] North Texas Qrp Club

Message-ID: <Pine.SUN.3.91.951005063917.5737A-100000@crl12.crl.com>

Attention Hams in Dallas, Ft. Worth, Austin, Fink, Fairview, and surrounding area of Texas, this Saturday is the first Saturday of the month and we all know what happens then!

The North Texas QRP Club, NORTEX, meets every 1st Saturday of the month at 10 AM. The meetings are held at Chuck Adams' (K5F0) place of business

in Addison, TX. (Plenty of room)

Directions to the meeting are:

First floor of the building on the southeast corner of Arapaho and Addison Rd. It's one block north of Beltline on Addison Rd. Quorum Centre is the name of the building - three stories glass and brick.

Look for the cars with the antennas.

Come into the main entrance and follow the signs to the SGI Training room.

Come hear about QRP Afield, Chuck's trip to die mutterland, and anything else that's going on.

Lots of QRP discussion and show-n-tell.

CU there,

Smitty, NA5K

Henry Smith (hbs@crl.com)

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: LVE1@inel.gov (Larry East)
Subject: [3840] October QRP Quarterly
Message-ID: <9510052256.AA02781@garnet.inel.gov>

My copy arrived yesterday (10/4) in SE Idaho. Great job on your "first", Ron!!

72, Larry.

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: bmitchel@cba.kodak.com (Brad Mitchell)
Subject: [3829] Q dope substitute?
Message-ID: <9510051816.AA16910@iiatasun.cba.Kodak.COM>

I read a lot of comments in the digest regarding a Q-dope substitute. A friend of mine (n2vno) was re-painting his floor with water proof paint (UGL), and he read the contents.. Polystyrene. Hmm possibly a cheap and available solution.

73 Brad WB8YGG

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: rgobrick@public.compuserve.com (Robert J. Gobrick)
Subject: [3841] QRP Quarterly goes QRO
Message-ID: <199510052258.UAA32093@public.compuserve.com>

QRP-L Gang,

I can't believe it, I just can't believe it - our beloved ARCI QRP Quarterly has just sold out - My October issue arrived today in Canada and it is 60 PAGES HUGE. And that is 60 HUGE 8.5 X 11 pages - not the QRPP size pages. It should be called the QRO Quarterly based on size alone.

I don't know about the new QRP Quarterly Managing Editor Monte "Ron" Stark KU7Y but he almost reminds of that famous QRP Dyer who in one ad claims victory as a QRP contesteer and then months later shows up with a cigar and Alpha.

The QQ IS HUGE. It is the BIGGEST I've ever seen - it will require a few "sittings" to get through all the articles by WA8MCQ, KG8IH, KD9IG, W1HUE, W0RSP, K5FO, W6TOY, W4RNL, KI6SN, W3TKS, N6GA G0PBS, HB9AFO and many, many others. Wow, just Wow!!

Thanks QRP ARCI and thanks to all you authors - you really are making the QQ something to light up a cigar about (and where is that Alpha and WA8MCQ mug shot).

73/72 Bob V01DRB/WA6ERB

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-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRP'er Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@public.compuserve.com                 |
|                bgobrick@terra.nl.net.nf.ca                   |
| Compuserve:   70466.1405@compuserve.com                       |
|-----
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From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995

From: "Jon Iza" <iapizloj@bicc00.bi.ehu.es>
Subject: [3826] QRP-L logo
Message-ID: <199510051853487130.iapizloj@bi.ehu.es>

Gang,
I've seen the logos and they look great but, being a non-English speaker,
I have a serious doubt about some of them.
I've seen big characters "I" "Q" and "72". And IQ lower than 100 are...
As this list is one of the brightest gathering of hams around the world,
my recommendation is that we should reject any logo with " I Q 72 "
For other people we'll be "Dumb and Dumber, and The QRP-L gang!"
:-) :-)
Be well.
jon, ea2sn <= lowercase, i'm a qrp'er!

From qrp-l@lehigh.edu Fri Oct 6 10:46:00 1995
From: Bill Acito 05-Oct-1995 1539 <acito@asdg.ENET.dec.com>
Subject: [3831] QRPers at Rochester, NH
Message-ID: <9510051938.AA03135@us1rmc.bb.dec.com>

If any New England area QRPers will be attending this flea,
I will be listening 147.435(simplex) while I scrounge through
the part boxes in the rain on Saturday (hi).

b

. - I own my own words -

Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS ... qrp-ne ... qrp-arci ... norcal ... arrl life

From qrp-l@lehigh.edu Fri Oct 6 10:46:00 1995
From: N8CQA@aol.com

Subject: [3842] QRPP

Message-ID: <951005193339_117174150@emout05.mail.aol.com>

Doug - Received the 09/95 QRPP today (10/05/95). Great job!!! I continue to be impressed! Thanks!

72/73 Buck

Buck Switzer, N8CQA, Marysville, MI

Home (810)364-9640 Fax(810)364-8179

N8CQA@aol.com / am441@detroit.freenet.com

"QRP is not for sissies!"

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995

From: a0378@freenet.uni-bayreuth.de (Karl-Heinz Merscher)

Subject: [3855] Software for PCB-Design?

Message-ID: <9510061011.AA02680@btr0x7.hrz.uni-bayreuth.de>

Hi out there,

does anybody know whether good freeware/shareware software is available for designing PCB's?? The commercial programmes are too expensive !

Are there any b good ftp-sites?

vy 73 de AA1KD/DL6RDE, Charlie

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995

From: Bill Acito 05-Oct-1995 1550 <acito@asdg.UNET.dec.com>

Subject: [3832] Ten Tec Power Mite

Message-ID: <9510051947.AA03700@us1rmc.bb.dec.com>

Had this forwarded to me, but I have enough rigs (hi).
fyi, all disclaimers apply.

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: Kevin Anderson <anderson@ncrsun7.ncr.usace.army.mil>
Subject: [3857] what a din
Message-ID: <Pine.SUN.3.91.951006073814.1288A-1000000@ncrsun7>

Fox Hunters:

I sat back in amazement last night to the din created by the
foxhunt. Condx must have been good to bring out so many people.
After each QSO with Smitty, a modulated pitch of 700+/- hz
would arise as everyone tried to call NA5K. Never knew you
guys/gals could be so loud with your pipsqueak radios :-).
How Smitty heard through all that is great. The "Old Man" would
be proud. Utterly amazing. Thanks!

Didn't have my power supply going to enter with my OHR Sprint,
so gave my point to Smitty using my Heath HW-16 (boatanchors
is my other very major interest) with a blasting 30 watts QRO.
Sorry. To be fair, I'll try to give every fox a point if I can
even if I can't collect them myself at the moment. Hope you
don't mind as it's good practice for my ears for sure.

Cheers/73, es keep up the "din". Kevin, KB9IUA
(...waiting to hear if I'm mobilized for hurricane duty)
* * * * *
Kevin L. Anderson, CENCR-PD-W, U.S. Army Corps of Engineers
Rock Island District Office, Planning Div.-Waterway Systems
Rock Island, Illinois 61204-2004, USA phone:(309) 794-5586
e-mail: anderson@ncrsun1.ncr.usace.army.mil
* * * * *
Opinions expressed here are my own and do not represent the
U.S. Army Corps of Engineers or the Federal Government.

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: af852@rgfn.epcc.Edu (William R Colbert)
Subject: [3845] Re: 10/95 QQ
Message-ID: <9510052347.AA17347@rgfn.epcc.Edu>

Well, I guess the burro is stuck in the mighty muddy Rio again, but with the QQ. Hopefully it will arrive soon - sounds like Ron has done a fine job - 72/73 from El Paso, waiting and looking. Ray, W5XE

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: "MIKE HERR" <mike_herr@imdgw.chinalake.navy.mil>
Subject: [3835] Re: Cascade on 40 / 17
Message-ID: <n1399221483.3685@imdgw.chinalake.navy.mil>

Yep, I intend to build my Cascade on 40 / 17 meters, just waiting for it to arrive (#120 - bummer!)

72

Mike WA6ARA

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: adam@libertynet.org (Adam O'Donnell)
Subject: [3838] Re: Charging Gel Cells
Message-ID: <9510052221.AA12136@philadelphia.libertynet.org>

>The note about requireing 14.2 to 14.4 volts hit a chord. It may be that
>your gel cell pack charges through a silicon diode? If so, the 13.5 volts
>required might be raised to 14.2 on the upstream side of a silicon diode.
> That might explain why it needs 14+ volts to charge properly. Then again,
>it might have nothing to do with it :-)

>

>72

>Ed

I tried that with charging up my 12v 7a pack, but the diode and pass transistor heated up to a level where I could cook an egg after about 30 seconds.

What else can I do???

72

Adam O'Donnell, N3RCS
Amsat: N3RCS@AMSAT.ORG
Internet: ADAM@LIBERTYNET.ORG

"I want to know how God created this world. I am not interested in this or that phenomenon. I want to know His thoughts, the rest are details."

-- Albert Einstein

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: ALK0FRP@aol.com
Subject: [3839] Re: Error Condition Re: subscribe
Message-ID: <951005184623_37386946@emout04.mail.aol.com>

Yes I want to subscribe to QRP-L this is about the 5th time i've tried What
up ???
Is this so hard to understand

Al Dawkins Aurora Co Adr ALK0FRP@AOL.com

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: GREGOIRE@VALLEY.NET (ERNEST GREGOIRE)
Subject: [3820] Re: FOX HUNT please help
Message-ID: <199510051510.LAA01702@dartvax.dartmouth.edu>

Hello Chuck and the Gang,

Thank you all for the response to my question about the Fox Hunt.

It is much appreciated, cul on the air

73 de AA1IK

Ernie

de AA1IK

(Lead by example, It is much easier)
(to pull a string than it is to push it.)
()
()
()
()

Ernie Gregoire

Canaan, NH.

e-mail : GREGOIRE@VALLEY.NET

packet : AA1IK@WA1WOK.FN43FE.NH.USA

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [3852] Re: FOX stuff
Message-ID: <Pine.A32.3.91j.951005214100.13312C-100000@homer22.u.washington.edu>

Heard NA5K up in Seattle area...548 I'd say with QSB and some warble
in the tone. That sure was one huge pile up there just above 7.040,

hi hi. Heard the fox again on 7.110 but couldn't reach him from here.
Need to go back to the Butternut vertical and set that up again.
Twas good fun while it lasted :)

Maybe nxt time,
Stephen Lee
AB7Hi

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [3858] Re: Foxhunt
Message-ID: <951006091403.2100d132@carib.vf.mmc.com>

Smitty,

Glad to see from the summary you sent that you did indeed hear me. You were 449 to 569, probably the best qrp signal on the band. However, when you came back to me, there was a simultaneous ionosphere dropout coupled with a local QRM episode - what I call the LCZ phenomenon. Happens every time I try to work Byron!

Super effort, you really had a good thing going there. Now I think that Texas has 40 covered like it does 10 meters. It seems that whenever 10 is open at all, there's ALWAYS a bunch of Texans strutting around there with their big hats on!

Hope I can drum up half the activity you did when it's my turn next week ;-).

72/73,

Joe E., N2CX

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: Bill Acito 06-Oct-1995 1010 <acito@asdg.UNET.dec.com>
Subject: [3860] re: Foxhunt
Message-ID: <9510061409.AA14333@us1rmc.bb.dec.com>

Wierd conditions, Smitty. Early in the evening you were barely audible here in New England (at least on my vertical). Followed you up to the novice band, the same, but when you came back to 040, you were a solid 559 here in central Mass.

Great job running the pile...

b

. - I own my own words -

Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS ... qrp-ne ... qrp-arci ... norcal ... arrl life

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: [3833] RE: GEL Cell Charging Help?
Message-ID: <58538.owen@apollo.eeel.nist.gov>

> In message Thu, 5 Oct 1995 14:55:49 EDT,
> "michael w.m. babineau" <babineau@bnr.ca> writes:

>
>> instructions say that initial charge using an optional AC/12V adaptor
>> should be about 14-16 HRS (absolute max 20) and after that a charge
>> should take about 8 hours. I have been using a 1.5 12V AC adaptor
>> that I bought at Radio Shack to try to charge this thing. I verified the
>> polarity between the adaptor and the battery, I verified that the
>> adaptor is putting out 12V and I verified that the battery seems to
>> think it is being charged (charging LED lights up). But, even after
>> 16-20 hours on the charger it still shows up as being low (about 9V).
>>
>>

> The GelCell is a lead acid battery. It takes 2.25-2.3 volts per cell to
> charge it. A 12 Nominal battery is 6 cells so it takes 13.5 to 13.8 to
> properly charge. If your 12V adapter puts out less than that it will
> NEVER charge. I have several 12V @ 24 AH GelCells that I charge with a
> HB 1A PS with a wirewound Reostat to set current. I set to about 500 ma
> and let charge for about 2 days. There is no limit to the maximum
> charging current in standby use if you charge using a constant voltage of
> 2.25-2.3 v per cell. If you charge at a higher constant voltage of

> 2.4-2.5v per cell then limit the charging current to 25% of rated
> capacity. This info taken from the YUASA spec. sheets.
>
>
>> Do GEL-Cells have a limited shelf life?
> I find that used in UPS's where they are not often discharged they last
> 3-5 years. If discharged more often they usually last longer 5-7 years.
>
> I'm assuming the the reduced charging time in > the car is due to a
> higher voltage (ie 13.8 with the engine running
>
> You assume correctly.
> 73 Jim K4CGY
>

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: okasb@shoe.mtv.gtegsc.com (Bob Okas)
Subject: [3836] Re: GEL Cell Charging Help?
Message-ID: <9510052109.AA11241@shoe.mtv.gtegsc.com>

Michael, VE3WMB, wrote:

Hi :

> I recently bought a battery similar to the "Power Station" product that
> I have seen advertised in most of the Ham Radio Magazines. This is a self
> contained unit rated at 5A hrs with 12V, 3V, 6V, 9V outputs. It was cheap
> too, at \$29.95 Can (\$20 off).

> I seem to be having problems getting this thing to charge. I brought the
> first one back and had it exchanged, the second one doesn't seem to want
> to take a charge either. The instructions are very terse and I'm wondering
> if I'm doing something stupid.

< SNIP >

Michael,

Funny that post should show up today... I too have one of those battery packs, purchased at Price Club (for a *real* low price, IMA) and it was manufactured in the Pacific Rim. Like you, I had problems charging the blasted thing, even in my car. The instructions were very sparse and led me to experiment a bit. Here's what I found:

Even at home, hooked up to a 13.8V supply, the battery wouldn't charge up enough to light the "Full" light. I didn't want to damage it, but even

after 12 hours at 13.8V, I decided to up the input voltage a tad. My memory is vague on the exact voltage, but it was somewhere around 14.2 - 14.4V. After a couple of hours, it was done.

Since my son ran it down over the course of the summer, it now needs another charge. I've got it in the car now, "precharging." Tonight, it goes on the the AC supply to get topped off.

Bob - N3MBY

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: James Lyons <jlyons@CAM.ORG>
Subject: [3818] Re: Making Q-dope
Message-ID: <199510051438.KAA10944@Stratus.CAM.ORG>

Yes acetone is not a good solvent ... benzene and carbon tetrachloride are good but both carcinogenic. Toluene is the preferred solvent.

Jim, VE2KN

On Wed, 4 Oct 1995, michael silva wrote:

> Regarding making your own Q-dope by dissolving styrofoam in acetone,
> has anybody actually been able to make this work? When I tried it, I
> just got a coagulated lump of plastic at the bottom of the jar (exactly
> the consistency of melted cheese). The more styrofoam I added the
> bigger the lump got, but it never blended into the solvent, even with
> vigorous stirring. I tried a few different sources of styrofoam
> (packing peanuts, molded packing ends) with the same results. The only
> good part was the great dissolving effect itself, complete with hissing.
>
> So, anybody else have better success?
>
> 73,
> Mike, KK6GM
>
>
>

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: ddw2@Lehigh.EDU (Dah-Jyuu D. Wang)
Subject: [3825] re: making Q-dope

Message-ID: <199510051539.LAA85226@ns3-1.CC.Lehigh.EDU>

Just tried last nite by dissolving packing peanuts in toluene. It seemed to work just fine. I did not try acetone although I have them too.

DJ, N2YKP

=====

D. J. Wang, Ph.D. N2YKP
Director of Instrumentation
ddw2@lehigh.edu
(610)758-3463 (Ph)
(610)758-6536 (Fax)

Lehigh University
Chemistry Department
Seeley G. Mudd Bldg.
6 E. Packer Ave.
Bethlehem, PA 18015

=====

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: prvalko <prvalko@Oakland.edu>
Subject: [3830] Re: North Texas Qrp Club
Message-ID: <Pine.OSF.3.91.951005130933.31745A-100000@saturn.acs.oakland.edu>

On Thu, 5 Oct 1995, H Smith wrote:

> Attention Hams in Dallas, Ft. Worth, Austin, Fink, Fairview, and
> surrounding area of Texas, this Saturday is the first Saturday of the
> month and we all know what happens then!

Yup! Everyone hops on a plane and flys up to Davison Michigan for the Michigan QRP Club - First Saturday of the month breakfast!

County Jim's Restaurant on 01' M-21 a couple hundred feet east of M-15
--Take the M-15 exit off of I-696 head north to the first stop light,
turn east and look for all the antennas.

73! =paul= wb8zjl

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: James Lyons <jlyons@CAM.ORG>
Subject: [3854] Re: October QRP Quarterly
Message-ID: <199510060930.FAA19605@Ocean.CAM.ORG>

On Thu, 5 Oct 1995, Larry East wrote:

> My copy arrived yesterday (10/4) in SE Idaho. Great job on your "first", Ron!!
>
> 72, Larry.
>
Also arrived in Montreal ... GREAT issue.

Jim, VE2KN

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: Byron8LCZ@aol.com
Subject: [3819] Re: Q- Dope... An Alternative.
Message-ID: <951005110653_37037219@mail06.mail.aol.com>

What happens to beeswax, if the rig is sitting in the sun for hours. will it soften up?

72, Byron WA8LCZ

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: cebik@UTKVBX.UTCC.UTK.EDU
Subject: [3822] Re: Q- Dope... An Alternative.
Message-ID: <Pine.PMDF.3.91.951005111613.547440843B-100000@utkvx.utk.edu>

On Thu, 5 Oct 1995 Byron8LCZ@aol.com wrote:

> What happens to beeswax, if the rig is sitting in the sun for hours. will it
^^

> soften up?

>

> 72, Byron WA8LCZ

One of the following three is guaranteed to qualify as "it" and soften up in the sun: the rig, the beeswax, or the operator.

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: Harry_Chase@smtpgw.windata.com (Harry Chase)
Subject: [3823] Re: Q- Dope... An Alternative.
Message-ID: <9509058129.AA812917077@smtpgw.windata.com>

Yes, the beeswax will probably soften in the hot sun... and if it is like so many outdoor FD-type operations, it will attract a whole hive full of bees to check it out, too!!! :-)

Harry
Wa1VVH

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: JEVERHART@cayman.vf.mmc.com
Subject: [3847] Re: Q-Dope
Message-ID: <951005220228.2100d1c4@carib.vf.mmc.com>

Gang,

I've been following the Q-dope commentary last week and I jsut hafta chime in! I, too use Q-dope but only on vfo windings (both toroids and solenoids) AND only after they have stabilized either via aging or heat treatment.

Guess I'm lucky 'cause one of the local hams sells Q-max (Tm) at area hamfests. He has a gallon can in his basement and sells nail-polish bottles full for 50 cents or so. And no, I don't think he will sell mail order. You gotta catch him at a 'fest.

In a pinch I've also used Duco (Tm) cement or model airplane cement. Haven't checked either with a Q meter, but I've noticed no serious side effects.

No one has mentioned it, but after applying any coating to an inductor you may notice slight change in vfo frequency as compared to before the coating was applied. Not sure if that's due to a change in distributed capacitance or just a slight mechanical disturbance to the windings. However the change makes me glad to have a trimmer cap ala the SW and NORCAL kits for final tweaking.

With all this talk of toluene, carbon tetrachlorid,e dimethyl ketones and other exotic volatile substances, I wonder if some of our experimentally inclined will sniff too much and start sounding like a certain qrp-1 member from 8-land. Sorry, I couldn't resist. :-) :-).

Will there soon be a suggestion that the Q-dope heads set up a Q-dope-1? No open flames please, at least not within 50 feet.

72/73,

Joe E., N2CX

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
From: weinfurtner@ouvaxa.cats.ohiou.edu (Greg Weinfurtner)
Subject: [3856] Re: Q-Dope...how 'bout Acrylic spray?
Message-ID: <v01510100ac9ac665fc35@[132.235.72.11]>

Gang,

I've used nail polish with success, especially as a "lock-tite" compound to hold screws in place. I just dab it on the head after the screw is in place, and then to remove it, just use nail polish remover. I don't put it on the threads, although I guess it would work as a permanent set-up.

I use clear acrylic spray paint, available at any hardware store, to lock coil windings in place. Does anyone have any experience with this as far as reaction of acrylic clear in the presence of RF fields? I haven't noted any ill effects in the qrp rigs I've put together. Of course with the low power fields it wouldn't exactly burst into flames...')

I once had a nylon strap holding the a wire on the high impedance side of the PI network in a 500w homebrew amp. The amp worked great until I tuned it up on 15 meters. There was this huge puff of smoke that the fan blew out of the amp. I thought, "Well, there went the transformer..." Come to find out it was just the strap that had absorbed some rf and went to that great strap home in the sky. Needless to say I don't use nylon any more.

```
*****
*      NN      N SSSSS 888888 00000 Greg Weinfurtner AEE BSS *
*      N N      N S      8      8 0 0 Electronic Design Splst *
*      N N      N SSSSS 888888 0 0 Ohio University Athens *
*      N      N N      S 8      8 0 0 *
*      N      NN SSSSS 888888 00000 *
*
*                                     Canst thou send lightnings *
*      Amateur Radio NS80           that they may go and say *
*                                     unto thee, 'Here we are'? *
*      weinfurtner@ouvaxa.cats.ohiou.edu Job 38:35 *
*****
```

From qrp-1@lehigh.edu Fri Oct 6 10:46:00 1995
Message-ID: <11125@WB6YMH> (32833@KD1CA)
From: KE6AEN@WB6YMH
Subject: Ten Tec Power Mite
From: KE6AEN @ WB6YMH.#SOCA.CA

. - I own my own words -

Bill Acito

acito@asdg.enet.dec.com

|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS ... qrp-ne ... qrp-arci ... norcal ... arrl life